

Substitute for form 1449/PTO

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**Complete if Known**

Application Number	10/696,282
Filing Date	October 29, 2003
First Named Inventor	Wilson et al
Group Art Unit	<del>1635</del> / 636
Examiner Name	<del>Brian A. Whitman</del> DAVID GUZO
Attorney Docket Number	GNV31BUSA/K1774DIV1

Sheet	1	of	1
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**Examiner  
Signature**

Date  
Considered

12/29/05

Signature \_\_\_\_\_

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Examiner Name	<del>Brian A. Whitman</del> David G. U20				
Sheet	1	of	2	Attorney Docket Number	GNV31BUSA/ UPN-K1774DIV1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JL	FFF	US-2004-0057933 A1	03-25-2004	Wilson et al	
ST	GGG	US-2004-0057931 A1	03-25-2004	Wilson et al	
U2	HHH	US-6,759,237 B1	07-06-2004	Wilson et al	

FOREIGN PATENT DOCUMENTS						
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OTHER PRIOR ART-NONPATENT LITERATURE DOCUMENTS			
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<i>JA</i>	III	GAO ET AL, Clades of Adeno-Associated viruses are widely Disseminated in Human Tissues, Journal of Virology, Vol. 78, No. 12, pp. 6381-6388, (June 2004)	
<i>CA</i>	JJJ	GAO ET AL, Erythropoietin Gene Therapy Leads to Autoimmune Anemia in Macaques, Blood, Vol. 103, No. 9, (May 1, 2004)	
<i>KA</i>	KKK	RICK ET AL, Congenital Bleeding Disorders, American Society of Hematology, pp. 559-574, (2003)	

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<i>jr</i>	EEE	PCT	WO 02/063025	A2	08-15-2002	Avigen, Inc.		

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<i>[Signature]</i>	DDD	SURACE ET AL, Delivery of Adeno-Associated Virus Vectors to the Fetal Retina: Impact of Viral Capsid Proteins on Retinal Neuronal Progenitor Transduction, Journal of Virology, Vol. 77, No. 14, pp. 7957-7963, (July 2003)	

Examiner Signature	<i>David Sujo</i>	Date Considered	12/29/05
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<i>CC</i>	CCC	US-2002-0159978 A1	10-31-2002	Allen	

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<i>JC</i>	A	US-6,387,368 B1	05-14-2002	Wilson et al	
<i>ST</i>	B	US-6,274,354 B1	08-14-2001	Wilson et al	
<i>BT</i>	C	US-6,482,634 B1	11-19-2002	Wilson et al	
<i>BT</i>	D	US-6,475,769 B1	11-05-2002	Wilson et al	
<i>ST</i>	E	US-6,365,394 B1	04-02-2002	Gao et al	
<i>ST</i>	F	US-6,399,385 B1	06-04-2002	Croyle et al	

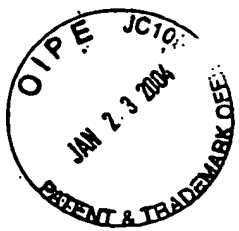
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BT	G	PCT WO03/093440	A2	11-13-2003	University of Florida		
ST	H	PCT WO03/092598	A2	11-13-2003	University of Florida		
ST	I	PCT WO98/11244	A2	03-19-1998	J. Chiorini		

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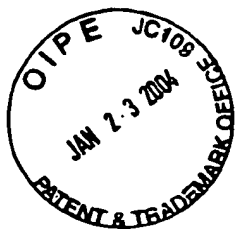
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ST	P	PCT WO98/10086 A1	03-12-1998	J. Wilson		
JL	Q	PCT WO99/15677 A1	04-01-1999	J. Wilson		
ST	R	PCT WO99/14354 A1	03-25-1999	J. Wilson		
ST	S	PCT WO99/15685 A1	04-01-1999	J. Wilson		
ST	T	PCT WO99/47691 A1	09-23-1999	G. Gao		
ST	U	PCT WO00/55342 A1	09/21/2000	G. Gao		
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<i>07</i>	X	US-5,622,856	04-22-1997	Natsoulis	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)					
07	Y	PCT	WO01/23597 A2	04-05-2001	G. Gao		
07	Z	PCT	WO01/23001 A2	04-05-2001	M. Croyle		
97	AA	PCT	WO01/83692 A2	11-08-2001	M. Hildinger		
07	BB	PCT	WO01/40455 A2	06-07-2001	G. Gao		

Examiner Signature	<i>David J. [Signature]</i>	Date Considered	<i>12/29/05</i>
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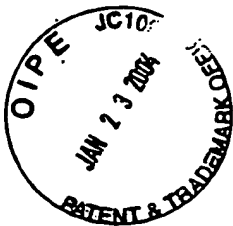
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				<b>Substitute for form 1449/PTO</b>	
				<b>Complete if Known</b>	
				Application Number	10/696,282
				Filing Date	October 29, 2003
				First Named Inventor	James M. Wilson
				Group Art Unit	1635 / 636
Examiner Name	Brian A. Whiteman GU20				
Sheet	4	of	8	Attorney Docket Number	GNV31BUSA/ UPN-K1774DIV1

OTHER PRIOR ART-NONPATENT LITERATURE DOCUMENTS			
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OC	CC	HAUCK ET AL, Generation and Characterization of Chimeric Recombinant AAV Vectors, Molecular Therapy, Vol. 7, No. 3, pp. 419-425, (March 2003)	
OF	DD	RABINOWITZ ET AL, Cross-Packaging of a Single Adeno-Associated Virus (AAV) Type 2 Vector Genome into Multiple AAV Serotypes Enables Transduction with Broad Specificity, Journal of Virology, Vol. 76, No. 2, pp. 791-801, (January 2002)	
OF	EE	HAUCK ET AL, Characterization of Tissue Tropism Determinants of Adeno-Associated Virus Type 1, Journal of Virology, Vol. 77, No. 4, pp. 2768-2774, (February 2003)	
OF	FF	ARRUDA ET AL, Safety and Efficacy of Factor IX Gene Transfer to Skeletal Muscle in Murine and Canine Hemophilia B Models by Adeno-Associated Viral Vector Serotype 1, Blood First Edition Paper, (September 11, 2003)	
OF	GG	E. RUTLEDGE ET AL, Infectious Clones and Vectors Derived from Adeno-Associated Virus (AAV) Serotypes Other Than AAV Type 2, Journal of Virology, 72(1):309-319 (January, 1998)	

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				Application Number	10/696,282
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				First Named Inventor	James M. Wilson
				Group Art Unit	1636
Sheet	5	of	8	Examiner Name	Brian A. Whitman GUZO
				Attorney Docket Number	GNV31BUSA/ UPN-K1774DIV1

OTHER PRIOR ART-NONPATENT LITERATURE DOCUMENTS			
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gc	HH	W. XIAO ET AL, Gene Therapy Vecotrs Based on Adeno-Associated Virus Type 1, Journal of Virology, 73(5):3994-4003 (May, 1999)	
gt	II	H. CHAO ET AL, Several Log Increase in Therapeutic Transgene Delivery by Distinct Adeno-Associated Viral Serotype Vectors, Molecular Therapy, 2(6):619-623 (December 2000)	
gt	JJ	R. KOTIN ET AL, Site-Specific Integration by Adeno-Associated Virus, Proc. Natl. Acad. Sci. USA, 87:2211-2215 (March, 1990)	
gt	KK	K. FISHER ET AL, Recombinant Adeno-Associated Virus for Muscle Directed Gene Therapy, Nature Medicine, 3(3):306-312 (March, 1997)	
gc	LL	X. XIAO ET AL, Efficient Long-Term Gene Transfer into Muscle Tissue of Immunocompetent Mice by Adeno-Associated Virus Vector, Journal of Virology, 70(11):8098-8108 (November, 1996)	

Examiner Signature	<i>David J. [Signature]</i>	Date Considered	12/29/05
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				Group Art Unit	1635 / 636
				Examiner Name	Brian A. Whitman GUZO
Sheet	6	of	8	Attorney Docket Number	GNV31BUSA/ UPN-K1774DIV1

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gt	MM	R. SNYDER ET AL, Persistent and Therapeutic Concentrations of Human Factor IX in Mice After Hepatic Gene Transfer of Recombinant AAV Vectors, Nature Genetics, 16:270-276 (July, 1997)		
gt	NN	N. MUZYCZKA, Use of Adeno-Associated Virus as a General Transduction Vector for Mammalian Cells, Current Topics in Microbiology and Immunology, 158:97-129, (1992)		
lt	OO	R. SAMULSKI ET AL, Targeted Integration of Adeno-Associated Virus (AAV) into Human Chromosome 19, EMBO Journal, 10(12):3941-3950 (December, 1991)		
gt	PP	K. BERNS, Parvoviridae: The Viruses and Their Replication, in B. N. Fields et al, Fields Virology, 3 <sup>rd</sup> ed., Vol. 2, Chapter 69, pp. 2173-2197 (Lippincott-Raven Publishers, Philadelphia, PA) (1996)		
lt	QQ	R. SNYDER ET AL, Features of the Adeno-Associated Virus Origin Involved in Substrate Recognition by the Viral Rep Protein, Journal of Virology, 67(10):6096-6104 (October, 1993)		
lt	RR	K. BERNS, Parvovirus Replication, Microbiological Reviews, 54(3):316-329 (September, 1990)		
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				Examiner Name	Brian A. Whiteman GU20
Sheet	7	of	8	Attorney Docket Number	GNV31BUSA/ UPN-K1774DIV1

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ST	SS	R. SAMULSKI ET AL, Cloning of Adeno-Associated Virus into pBR322: Rescue of Intact Virus from the Recombinant Plasmid in Human Cells, Proc. Natl. Acad. Sci. USA, 79:2077-2081 (March, 1982)	
ST	TT	J. CHIORINI ET AL, Cloning of Adeno-Associated Virus Type 4 (AAV4) and Generation of Recombinant AAV4 Particles, Journal of Virology, 71(9):6823-6833 (September, 1997)	
ST	UU	S. MURAMATSU ET AL, Nucleotide Sequencing and Generation of an Infectious Clone of Adeno-Associated Virus 3, Virology, 221:208-217, (1996)	
ST	VV	C. BALAGUE ET AL, Adeno-Associated Virus Rep78 Protein and Terminal Repeats Enhance Integration of DNA Sequences into the Cellular Genome, Journal of Virology, 71(4):3299-3306 (April, 1997)	
ST	WW	R. SUROSKY ET AL, Adeno-Associated Virus Rep Proteins Target DNA Sequences to a Unique Locus in the Human Genome, Journal of Virology, 71(10):7951-7959 (October, 1997)	
ST	XX	X. XIAO ET AL, Gene Transfer by Adeno-Associated Virus Vectors into the Central Nervous System, Experimental Neurology, 144:113-124 (1997)	

Examiner Signature	<i>David [Signature]</i>	Date Considered	12/29/05
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YY	YY	ROSE ET AL, Microbiology, Vol. 546, Pages, 86-92, (1966)	
ZZ	ZZ	ANDERSON ET AL, Nature, Vol. 392, Pages, 25-30, (1998)	
AAA	AAA	VERMA, Nature, Vol. 389, Pages 239-242, (1997)	
BBB	BBB	ORKIN ET AL, Report and Recommendations of the Panel to Assess the NIH Investments in Research on Gene Therapy, issue by the National Institute of Health, (December 7, 1995)	

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